FIG. 1

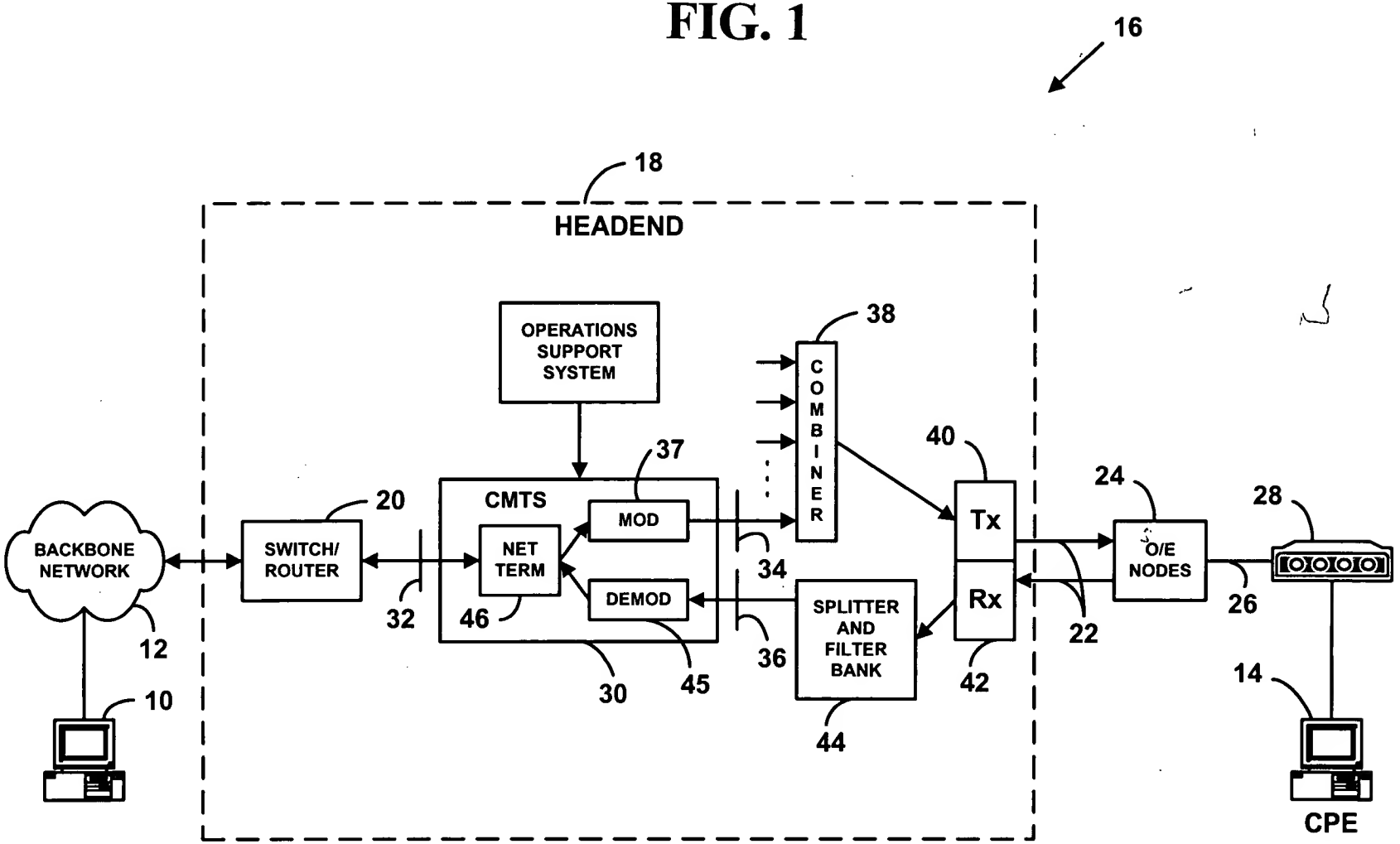

16
18
HEADEND
OPERATIONS SUPPORT SYSTEM
38
COMBINER
37
CMTS
MOD
NET TERM
DEMOD
20
SWITCH/ ROUTER
BACKBONE NETWORK
12
10
32
46
30
45
34
36
SPLITTER AND FILTER BANK
44
40
Tx
Rx
42
24
O/E NODES
22
28
26
14
CPE

FIG. 2

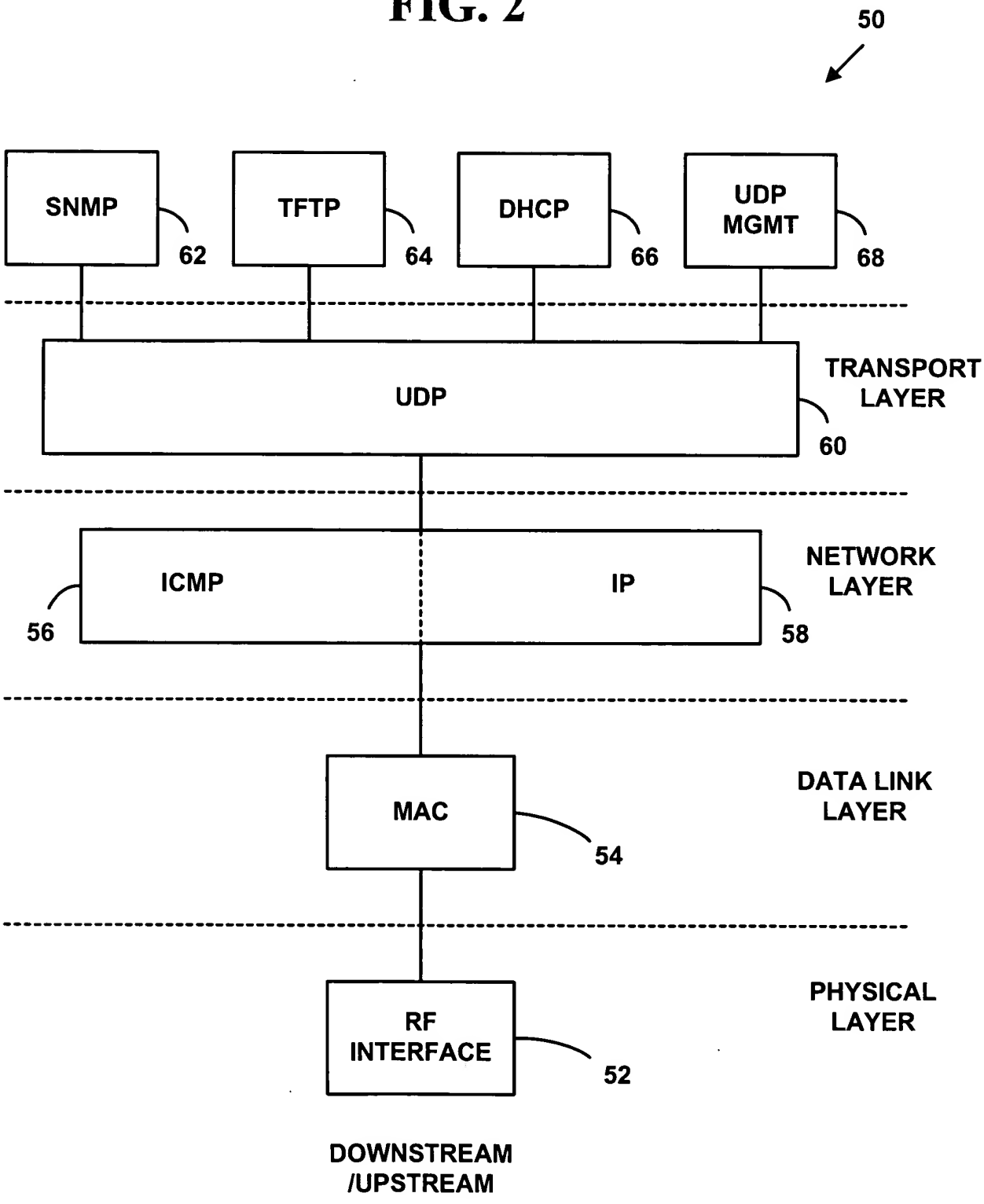

50
SNMP
62
TFTP
64
DHCP
66
UDP MGMT
68
UDP
TRANSPORT LAYER
60
ICMP
56
IP
58
NETWORK LAYER
MAC
54
DATA LINK LAYER
RF INTERFACE
52
PHYSICAL LAYER
DOWNSTREAM /UPSTREAM

FIG. 3

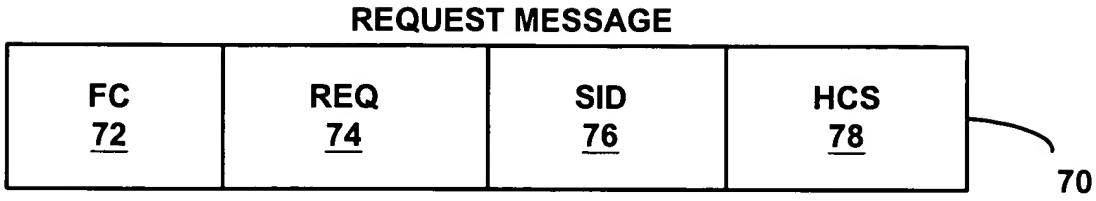
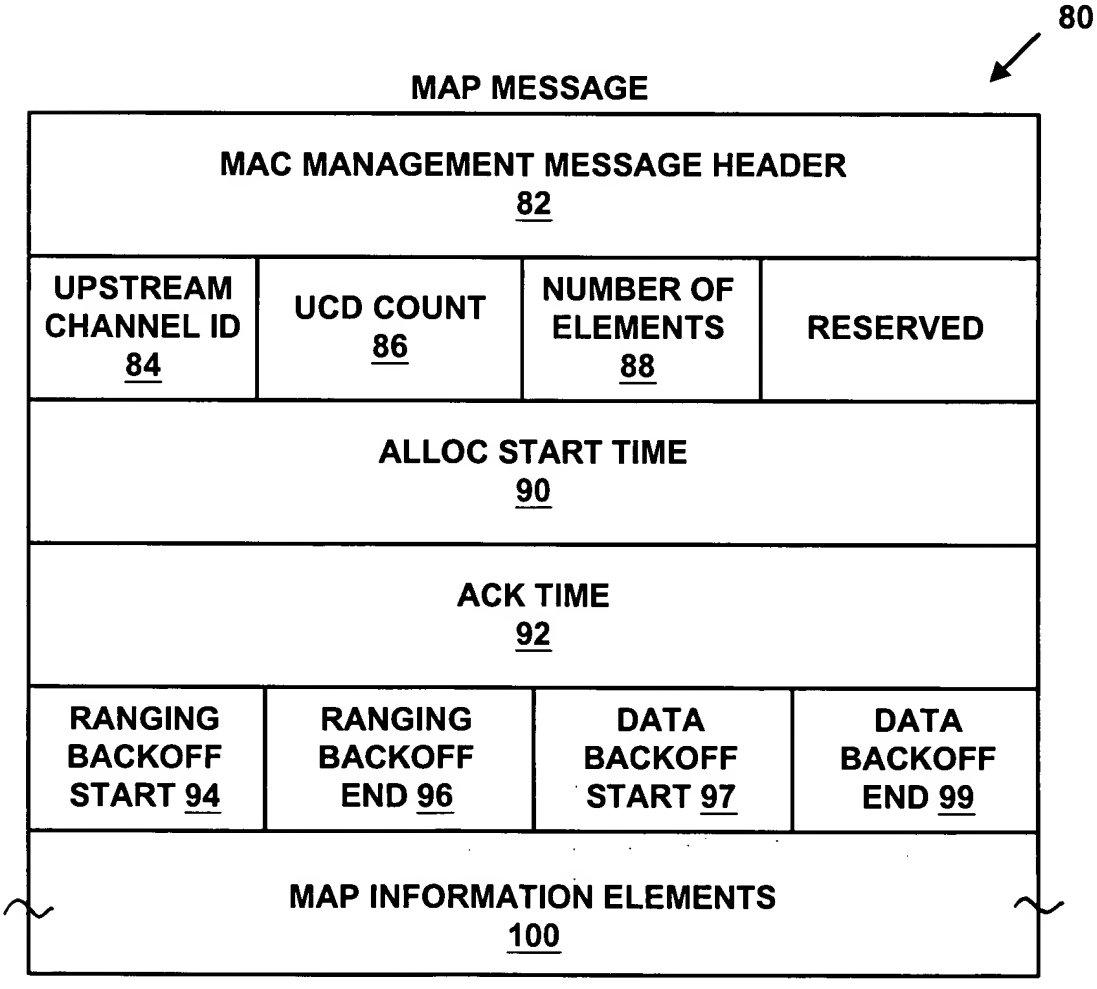
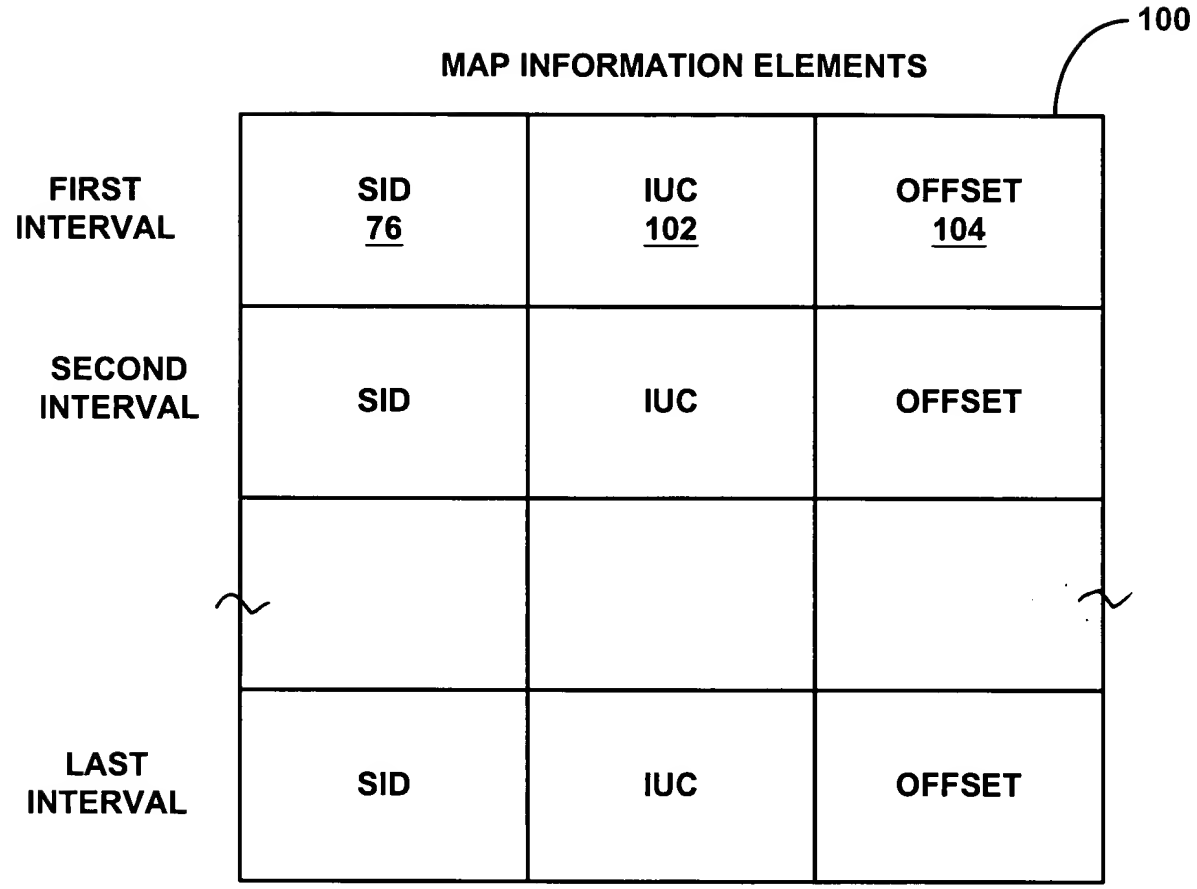


FIG. 4



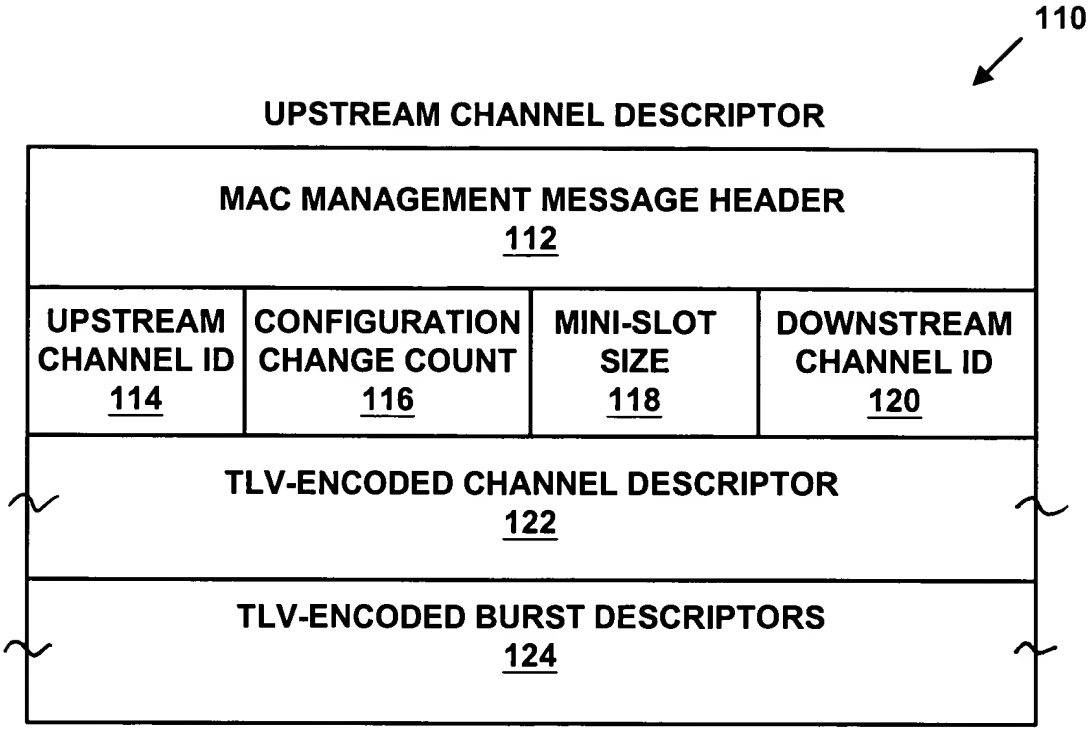
D0021360.P0076

FIG. 5



0005E1 - 6902760

FIG. 6



0005743-050204.060

FIG. 7

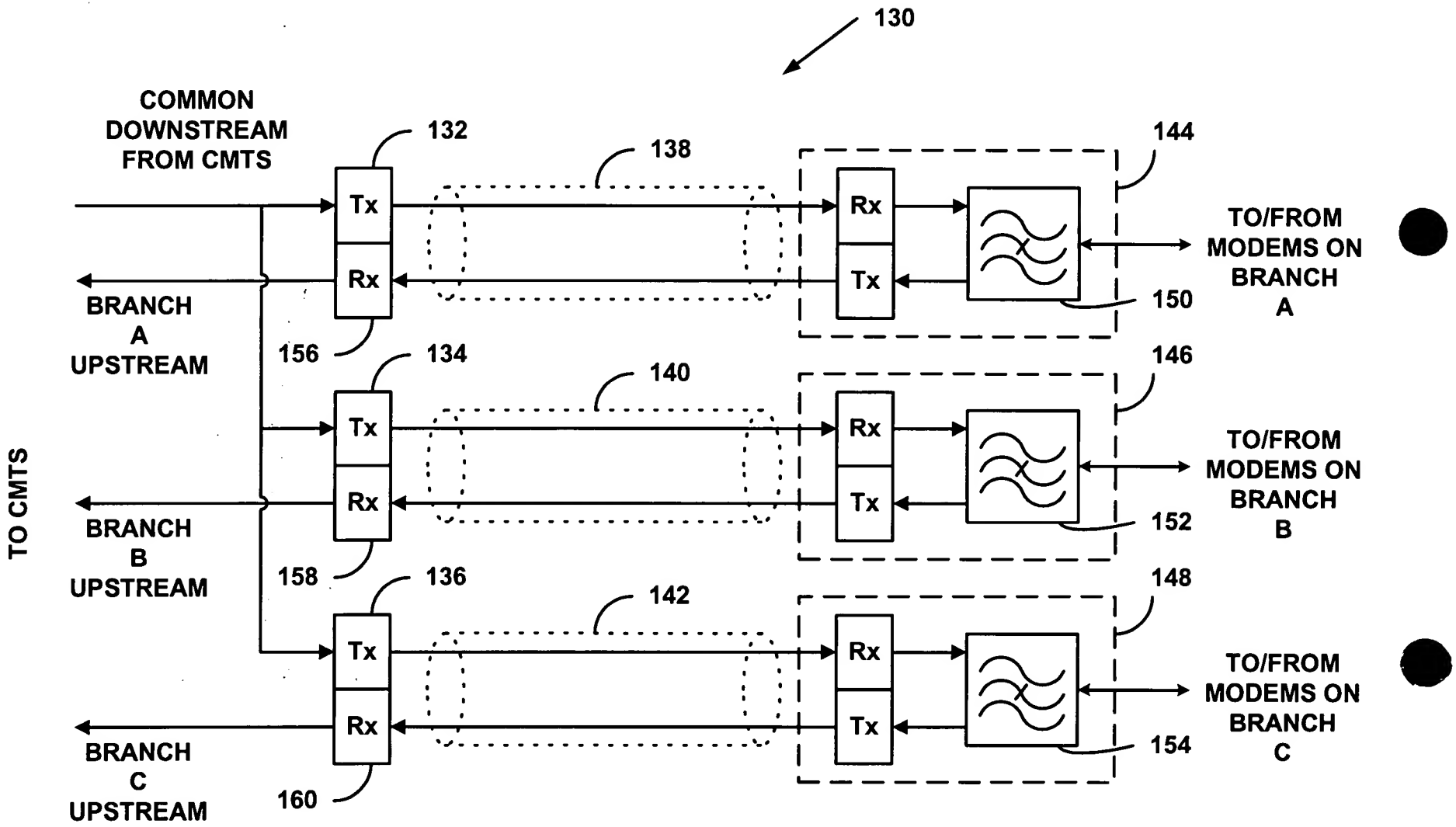

130
COMMON DOWNSTREAM FROM CMTS
132
138
144
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH A
150
BRANCH A UPSTREAM
156
134
140
146
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH B
152
BRANCH B UPSTREAM
158
136
142
148
Tx
Rx
Rx
Tx
TO/FROM MODEMS ON BRANCH C
154
BRANCH C UPSTREAM
160
TO CMTS

FIG. 8

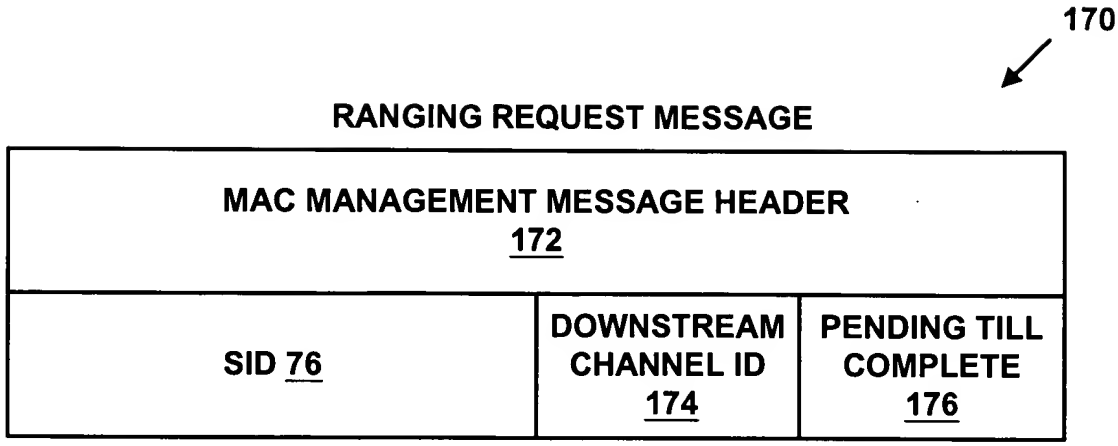
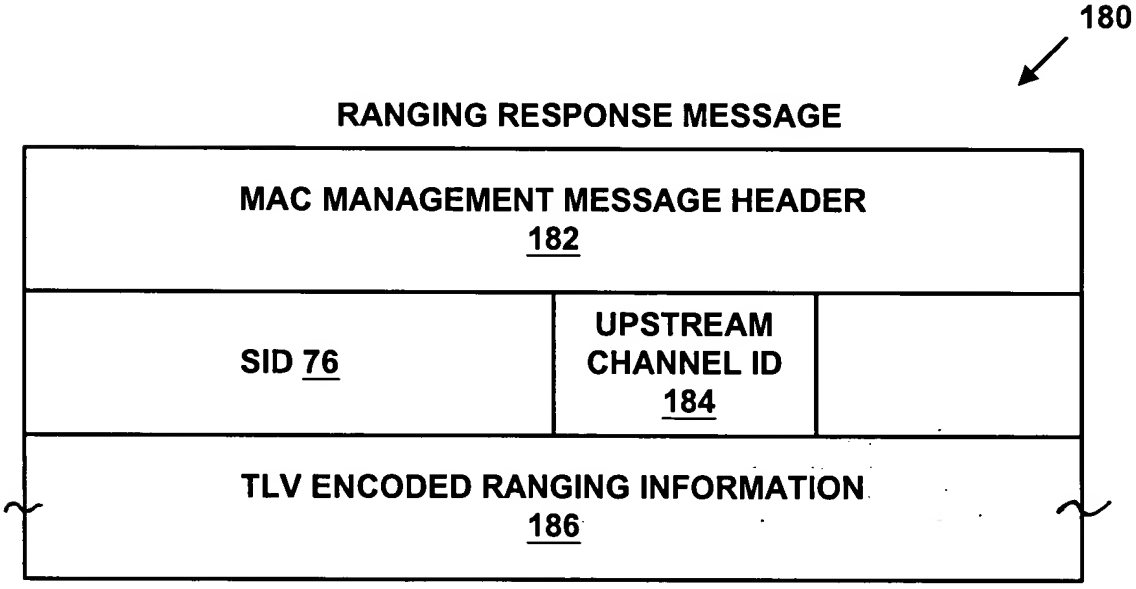
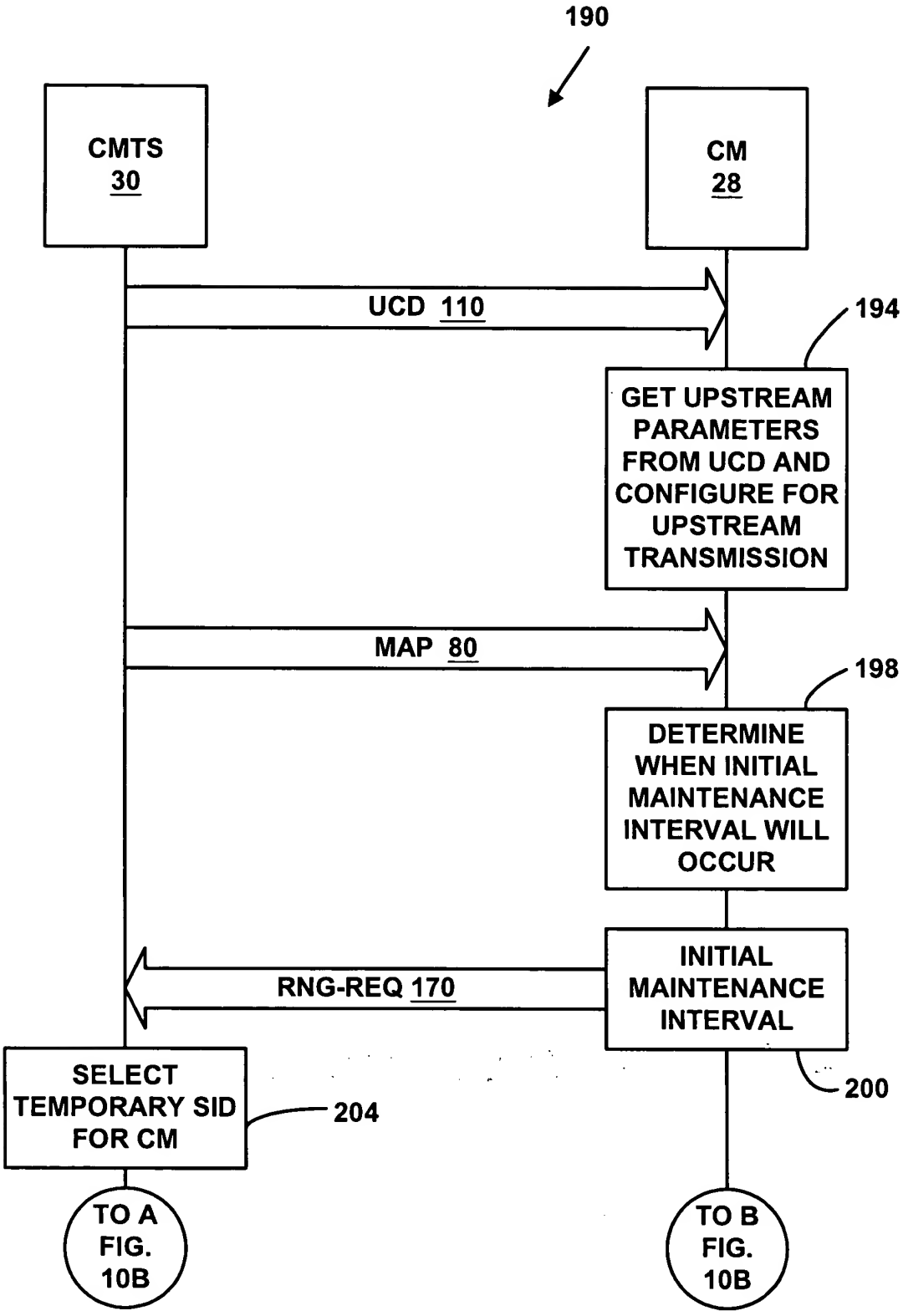


FIG. 9



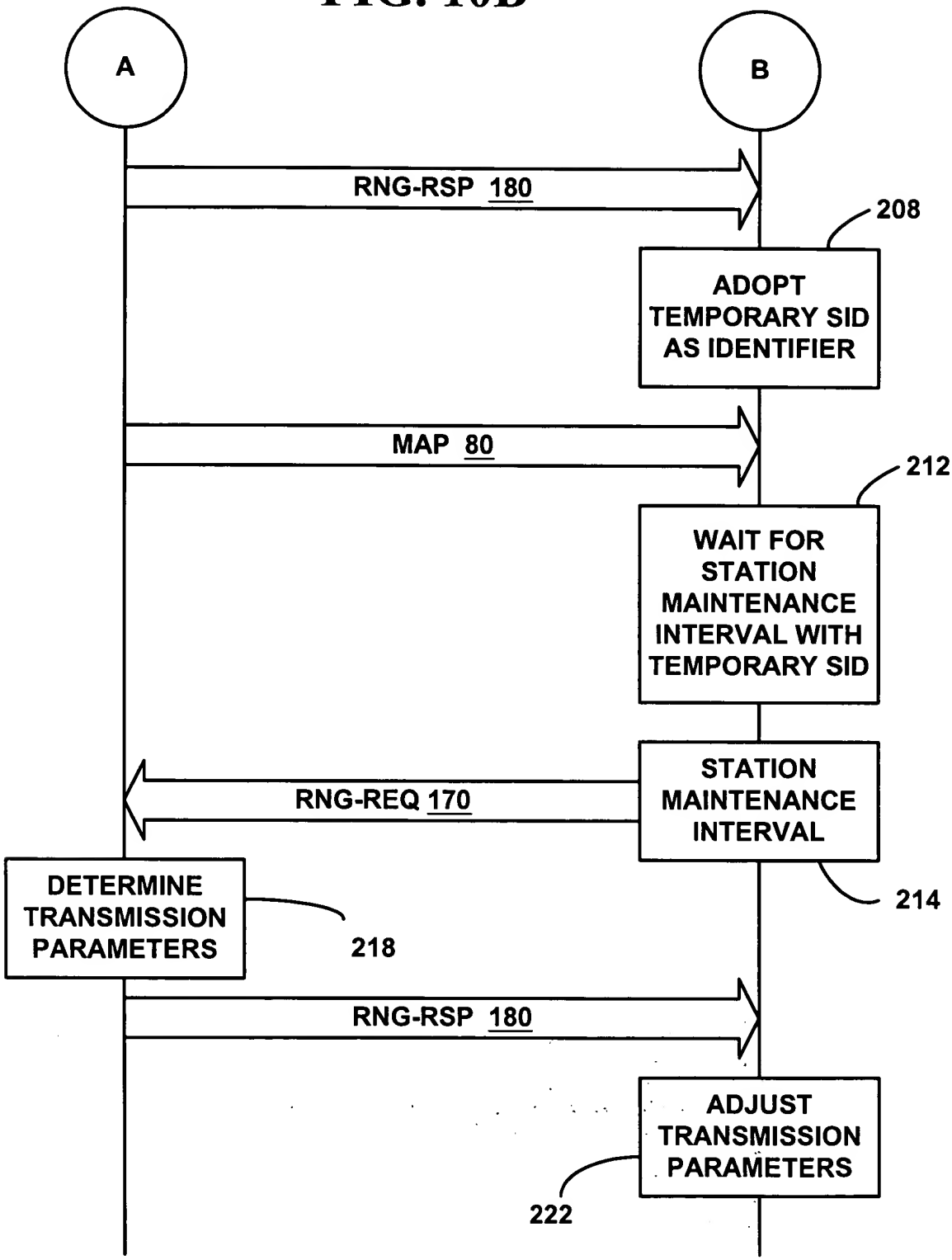
0054-6502-0209-3

FIG. 10A


190
CMTS
30
CM
28
UCD 110
194
GET UPSTREAM PARAMETERS FROM UCD AND CONFIGURE FOR UPSTREAM TRANSMISSION
MAP 80
198
DETERMINE WHEN INITIAL MAINTENANCE INTERVAL WILL OCCUR
INITIAL MAINTENANCE INTERVAL
RNG-REQ 170
200
SELECT TEMPORARY SID FOR CM
204
TO A FIG. 10B
TO B FIG. 10B

0004E1 6904260

FIG. 10B



0000ET "6904270"

FIG. 11

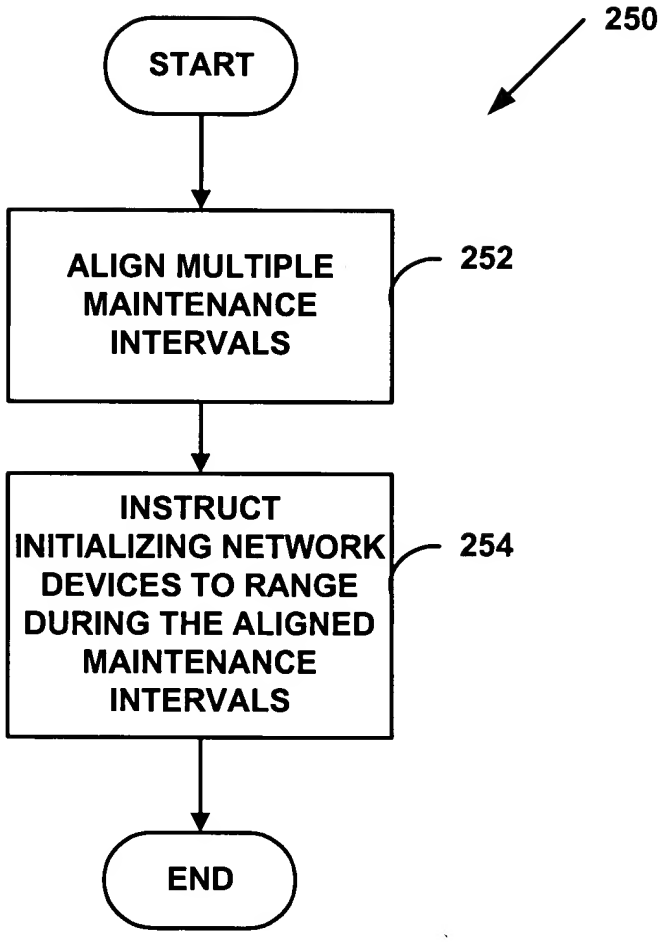
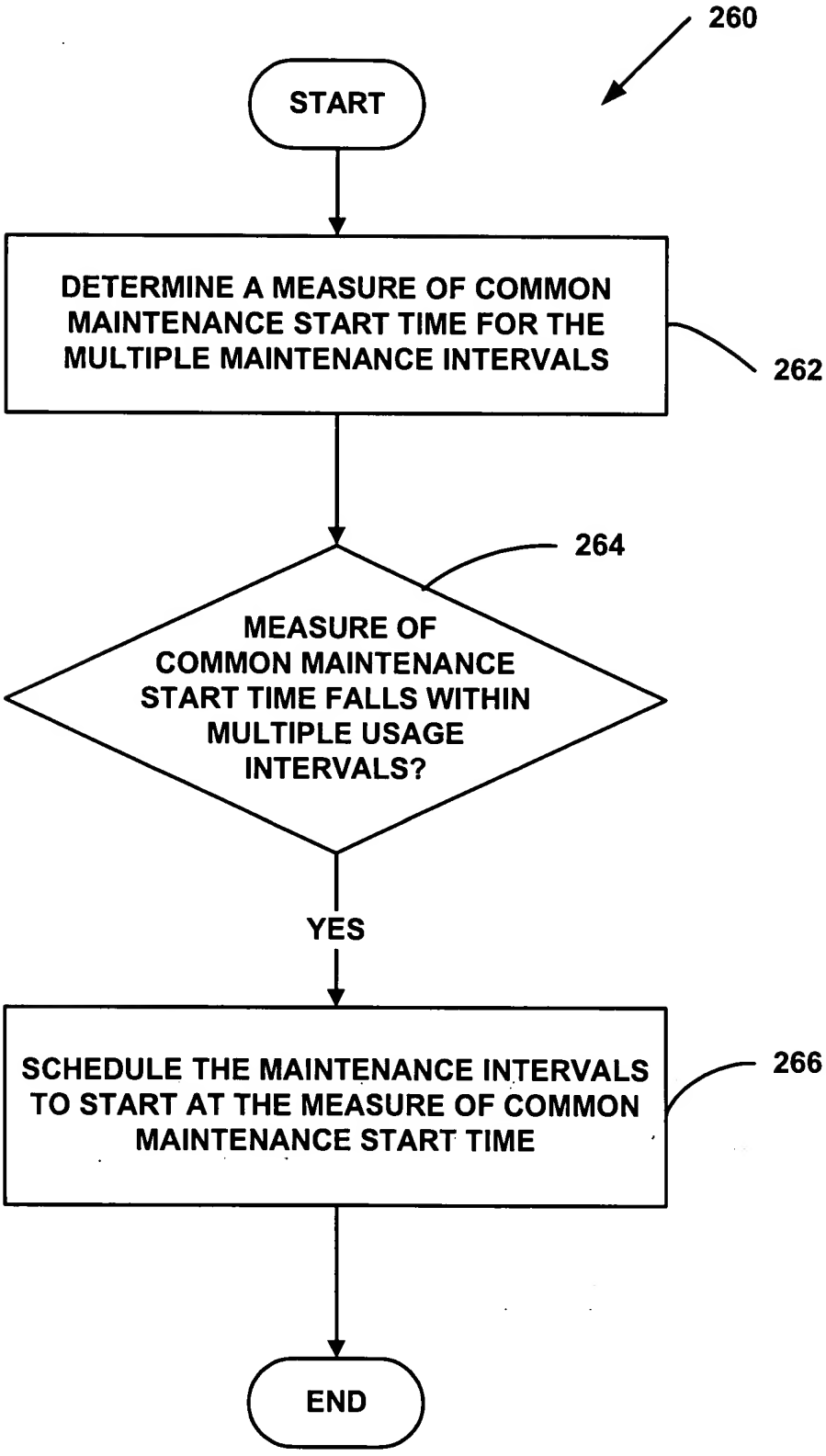
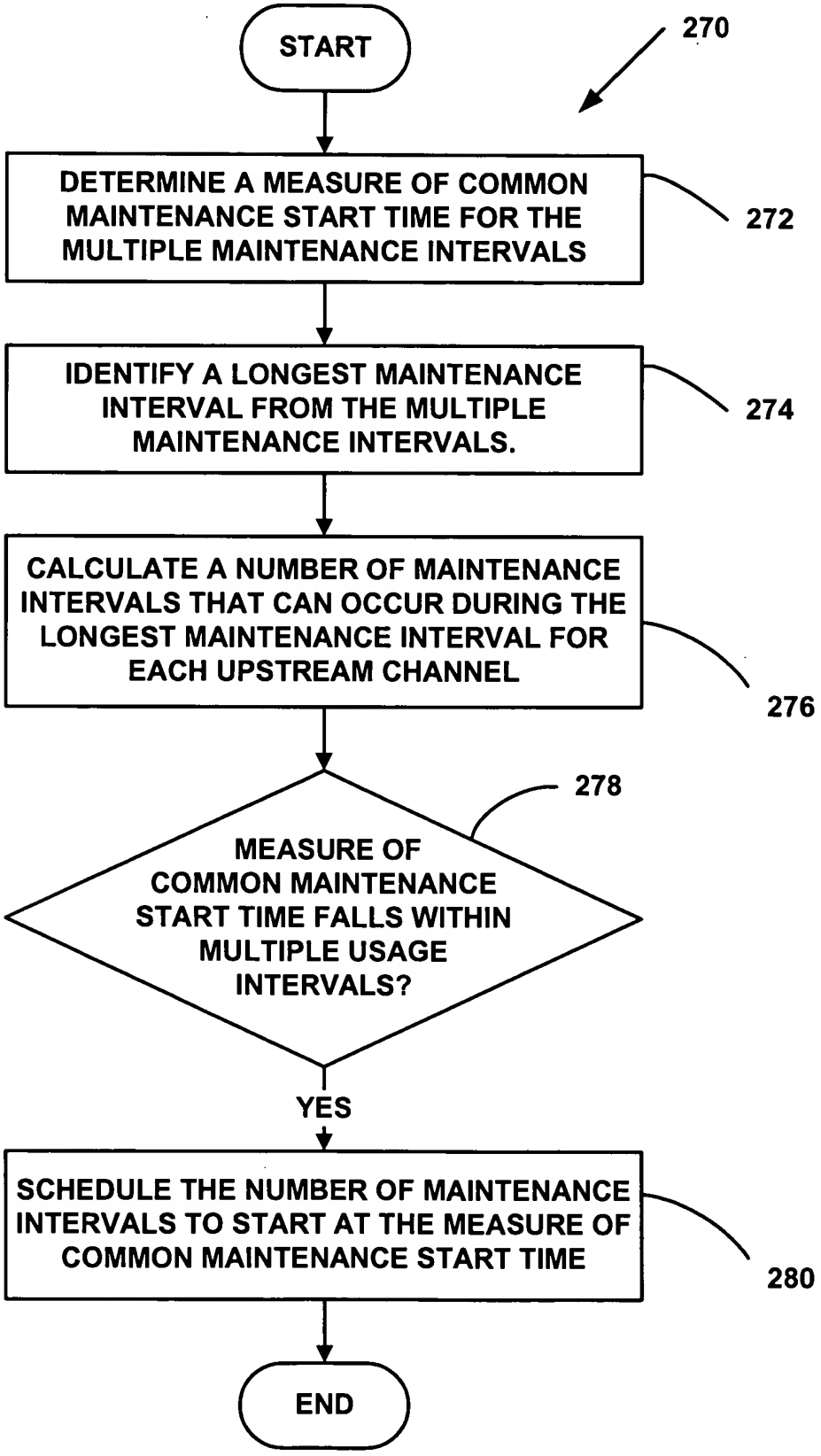


FIG. 12



0092760 · 6902760

FIG. 13



0005E7E 6902760